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63-3-2

TM-(L)-734/038/00

TECHNICAL MEMORANDUM

(TM Series)

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Systems Division Program, for Space Systems Division, AFSC.

Release of MSAP Simulation Subsystem

SYSTEM

Milestone 8

DEVELOPMENT

by

A. R. E. Busch

CORPORATION

18 March 1963

2500 COLORADO AVE.

Approved

SANTA MONICA

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1.0 INTRODUCTION

The MSAP Simulation Subsystem is composed of three basic functional areas. These areas are:

- a. Simulated data generation (SIPSA),
- b. Interface simulation for the 160-A vehicle-oriented subsystem (SIMSTN), and
- c. A data reduction capability (DROPSA).

These three areas are intended to aid the testing of augmented 1604 and 160-A programs.

The simulated data generation area (SIPSA) provides simulated inputs to either the 1604 Flight Support programs via a Bird Buffer-1604 transfer tape or to the 160-A vehicle oriented subsystem through the interface simulation area. All data generation is accomplished prior to the actual use.

The interface simulation (SIMSTN) utilizes inputs generated by SIPSA to simulate the stimuli and responses normally provided by a remote tracking station. All messages received from the 160-A vehicle-oriented subsystem are recorded on magnetic tape for subsequent reduction.

The data reduction area formats and lists the recorded outputs of the prior two simulation areas, thus providing a printed record of test inputs and outputs.

2.0 CONTENTS

The 1604 programs and associated octal correctors, as listed below, will be contained on a future ASUM Master Tape (M-0)¹. These programs will provide

1. The 160-A program will be present in the CPDC as a biotape paper tape.

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the data generation and reduction capabilities for MSAP Simulation. The programs have been submitted for entry in the CPDC Working Files.

2.1 Simulated Data Generation (SIPSA)-1604

<u>NAME</u>	<u>WORKING I.D.</u>	<u>MOD</u>
SIPSA	K03	04
SDGC	K04	03
SDOR	K05	02
SIMRESET	K10	03
SIMBLANK	K11	01
STGR	K07	03
SRGR	K08	02
SRADTPE	K12	02
SCGR	K06	01
SIMBUF	K13	01
STCA	K14	01
STCB	K15	01
STCC	K16	01
STCD	K17	01
STCE	K18	01
SEAPA	K09	02

2.2 Interface Simulation (SIMSTN)-160-A

<u>NAME</u>	<u>WORKING I.D.</u>	<u>MOD</u>
SIMSTN	20C	AA

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2.3 Data Reduction Area (DROPSA)-1604

<u>NAME</u>	<u>WORKING I.D.</u>	<u>MOD</u>
SOLVET	K20	00
SOCT	K22	00

(Plus the following octal as contained on
a previously submitted Computer Program
Modification Transmittal Memorandum.)

0A0110223A011310000001

DROPSA	K19	02
STEXT	K21	00
STRK	K23	00

(Plus the following octals, shown below,
as submitted on a Computer Program Modifi-
cation Transmittal Memorandum.)

0A0020610A0420750A0570

0A057010000026600A0045

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System Development Corporation,
Santa Monica, California
RELEASE OF MSAP SIMULATION SUBSYSTEM
MILESTONE 8.
Scientific rept., TM(L)-734/038/00,
by R. E. Busch. 18 March 1963, 3p.
(Contract AF 19(628)-1648, Space
Systems Division Program, for Space
Systems Division, AFSC)

Unclassified report

DESCRIPTORS: Programming (Computers).
Satellite Networks.

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